University of Kansas

Lawrence, Kansas Energy Performance Contract with UtilityVision®

Project Size: 85 buildings, 5.4 million sq ft

Project Value: \$18.4 million

Source of Funds: Tax Exempt Lease

Contract Terms: 18.5 years

Technical Design

Personnel: Tim Mense, Senior Project Manager, 913 563 3500

Doug Munnell, Project Manager, 913 563 3500 Randy Jameson, Project Manager, 913 563 3500 Vicky Watkins, Project Engineer, 913 563 3500 Chad Mestel, Project Engineer, 913 563 3500 Todd Einck, Energy Analyst, 913 563 3500

Project Schedule: In construction

Project Phase	Project Dates			
1 10,000 1 11,000	Started	Completed		
Comprehensive Energy Analysis	April 2002	December 2002		
Design/Implementation	December 2002	June 2004		
Monitoring	June 2004	December 2022		

Guaranteed Annual Energy Savings: Year 1: \$1,606,000 energy

Annual Non-Energy Savings: Year 1: \$103,000 – O&M (escalated by 3%

annually)

Achieved Summarized Savings:

Baselines	kWh	kW	CCF	Water (gal)	Steam (lbs)	Energy \$	Non-Energy \$	Total Dollars*	
ANNUAL SAVINGS									
Year	kWh	kW	CCF	Water (gal)	Steam (lbs)	Energy \$	Non-Energy \$	Total Dollars*	
Construction									
Construction									

* Energy Savings + Non-Energy Savings = Total Annual Dollars Saved

Measurement and Verification: Combination of Option A, C and stipulated.

Comments: Currently in construction.



List of Improvements:

- Boiler plant renovation
- Condensate return and steam tunnel renovations
- Electrical distribution
- Expand central chiller plant distribution
- Replace chillers
- · New roof top and condensing units
- · Building automated control systems
- · Solar window film
- Attic insulation
- Refurbish cooling towers and add basin heater
- Replace cooling towers
- · Variable frequency fan & pump drives
- Power factor correction
- UtilityVision® utility monitoring system
- · Lighting renovations
- Domestic and process water conservation

Reference:

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